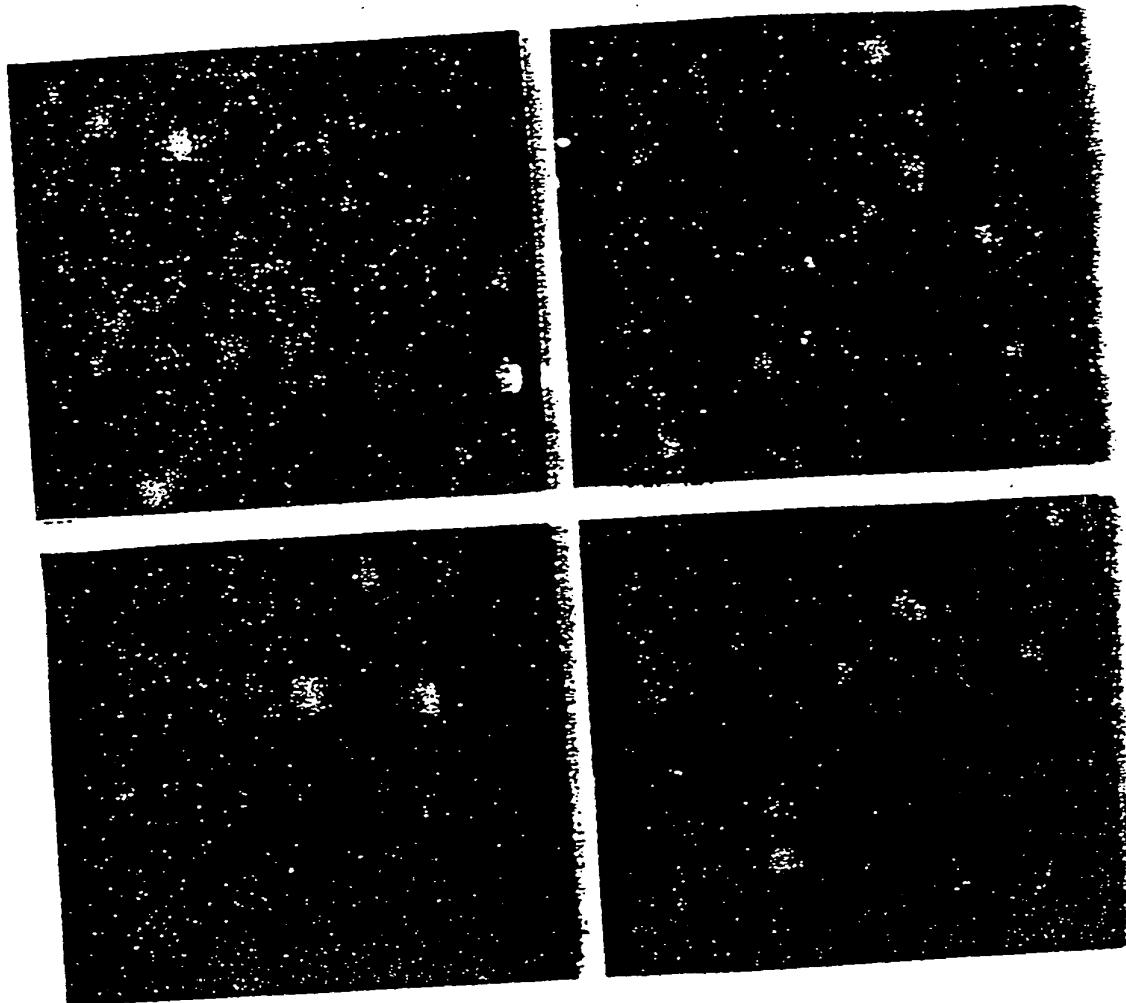


Figure  
1

#4



00029460 - 004664

Figure 2: Effect of biotinylation of p53 DNA on FISH signals

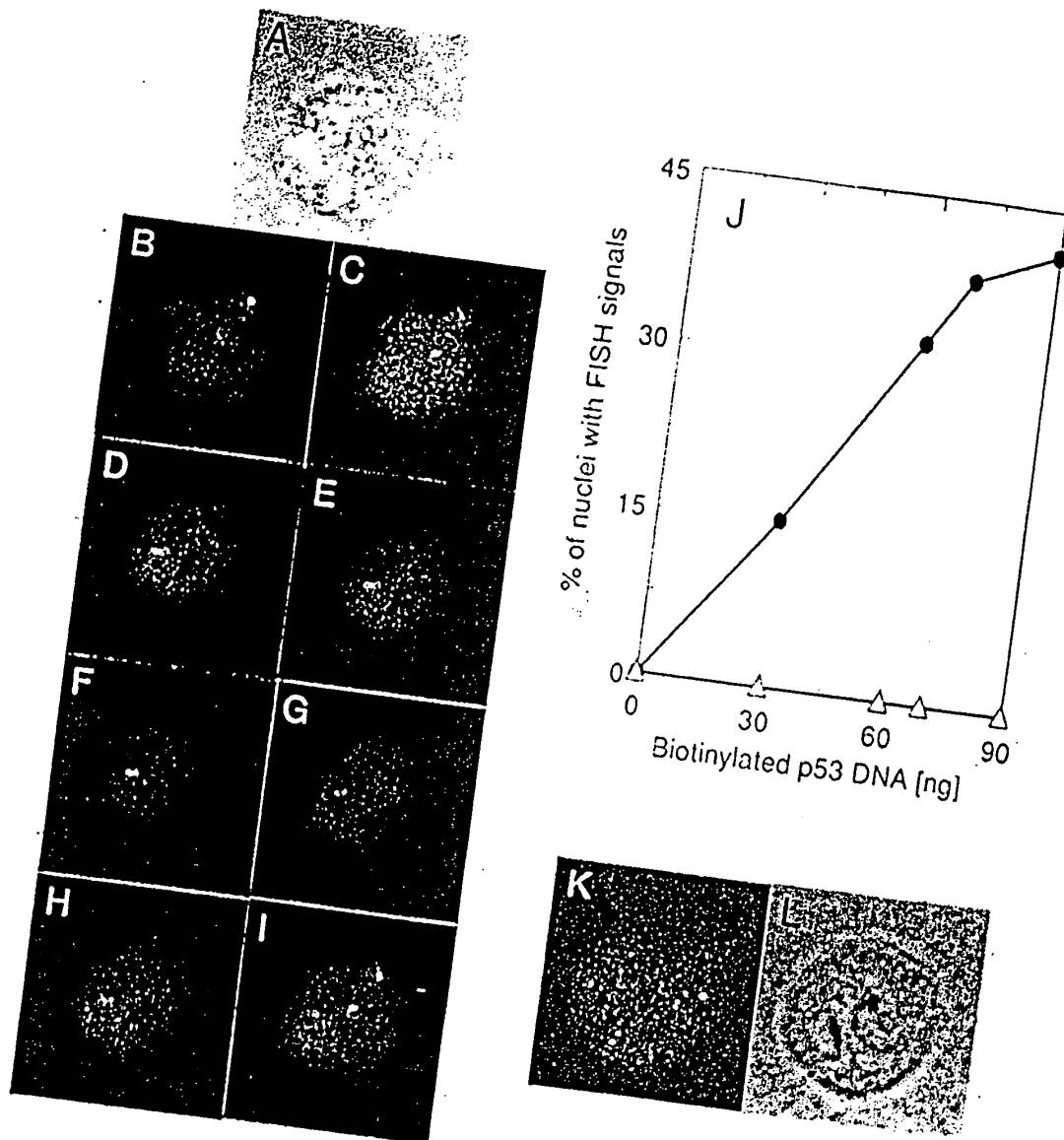


Figure 2

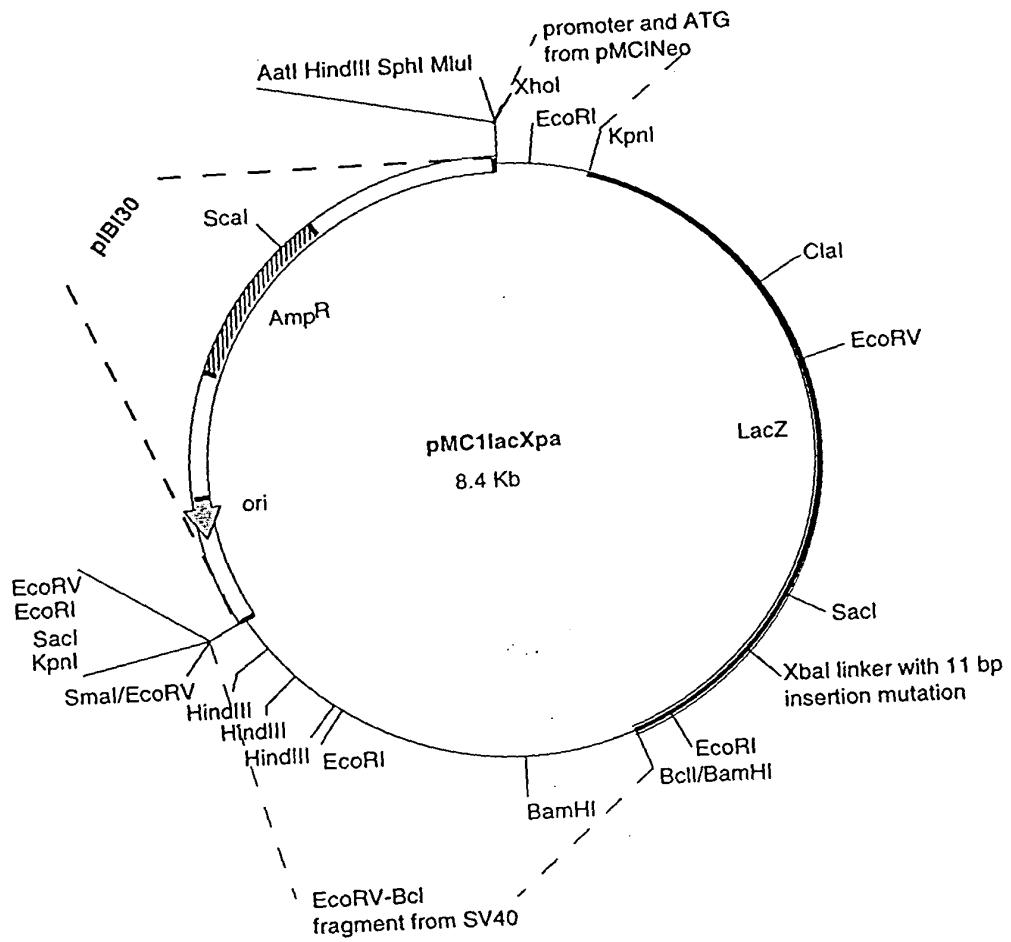


FIGURE 3

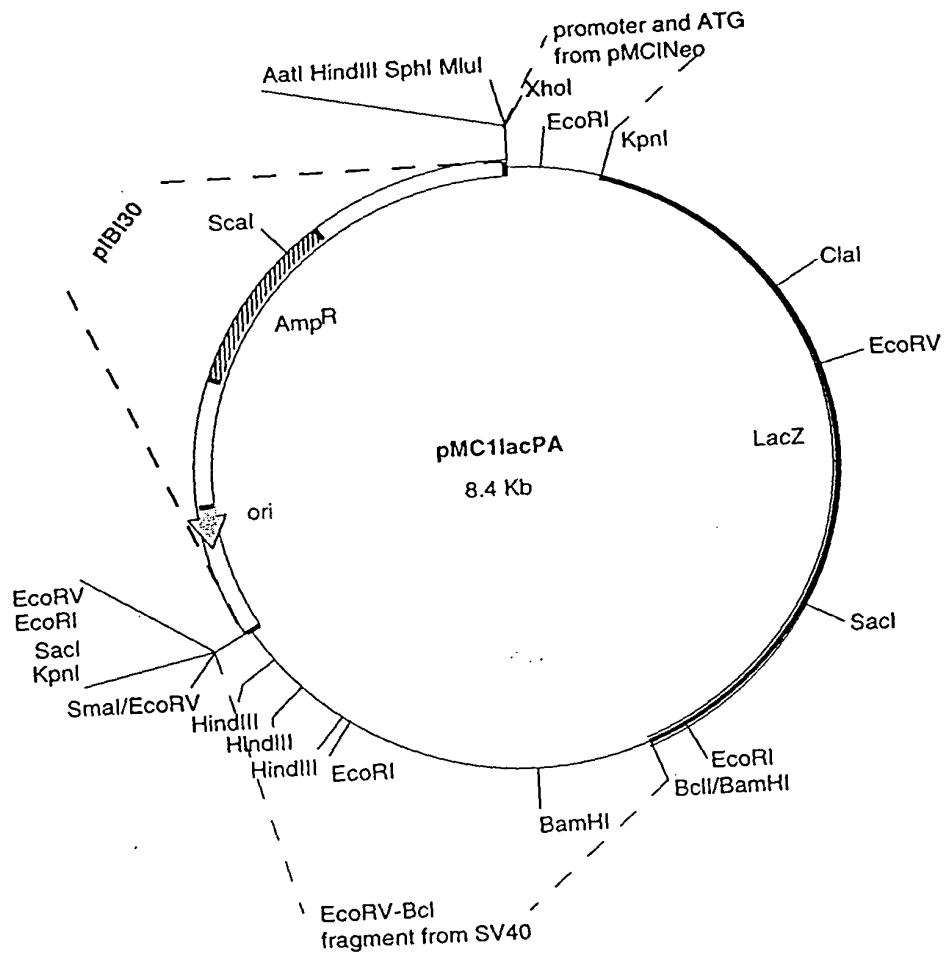


FIGURE 4

Figure 5

3610 3620 3630 3640 3650 3660  
ATAAAAAAACAAC TGCTGACGCCGCTGCGCGATCAGTTCACCGTGCACCGCTGGATAACG

3730 3740 3750 3760 3770 3780  
CGGCGGGCCATTACCAGGCCAAGCAGCGTTGCACTGCACGGCAGATAACATTGCTG

3790            3800            3810            3820            3830            3840

ATGCGGTGCTGATTACGACCGCTCACCGCTGGCAGCATCAGGGGGAAACCTTATTTATCA

CTCTAGACGCG      Xba Linker with  
11bp insertion

3850 3860 3870 3880 3890 3900  
GCCGGAAACCTACCGATTGATGGTAGTGGTCAAATGGCATTACGTTGATGTTGAAG

PCR  $\beta$

3910 3920 3930 3940 3950 3960

TGGCGAGCGATAACCCGCATCCGGC GCGGATTGGCCTGAAGTGCCAGCTGGCGCAGGTAG

3970 3980 3990 4000 4010 4020  
CAGAGCGGGTAAACTGGCTCGGATTAGGGCCGCAAGAAA  
CTATCCCCGACCGCCTTACTG

TEST FOR ALTERATION OF AN INSERTION MUTATION IN THE lacZ  
 (β-GALACTOSIDASE) GENE OF EUKARYOTIC EXPRESSION VECTOR

Experimental Sample	Injected Plasmid, 276-mer DNA and RecA Protein	Number of Injected Surviving Cells	Number of Surviving Cells Scoring Blue	Surviving Cells Scoring Blue (%)
1	pSV-β-gal -276-mer - RecA	168	21	12.5
2	pMC1lacpa - 276-mer - RecA	98	9	9.2
3	pMC1lacXpa - 276-mer - RecA	173	0	0
4	pMC1lacXpa + 276-mer - RecA	103	0	0
5	pMC1lacXpa + 276-mer + RecA	168	6	3.6

Figure 6

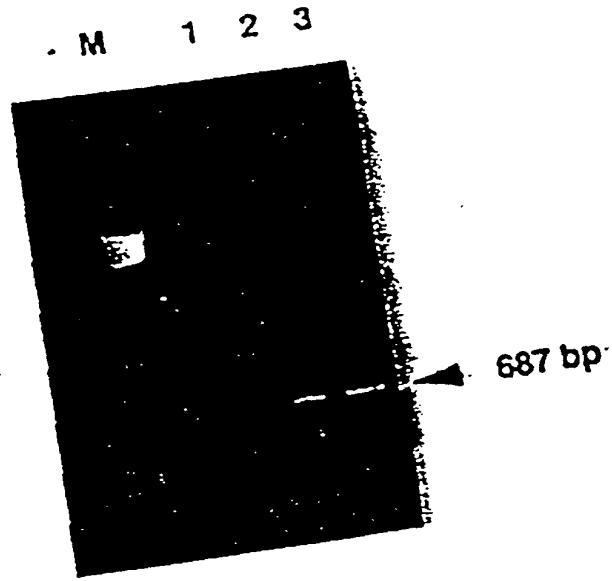
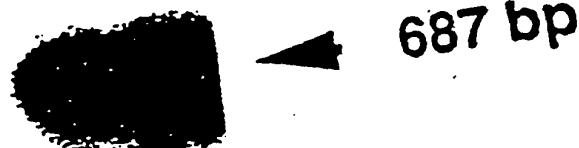


Figure  
2A

Control ( $\Sigma$ CF)  
 $T\Sigma$ CF Microinjected  
 $T\Sigma$ CF P-L

Figure  
2B



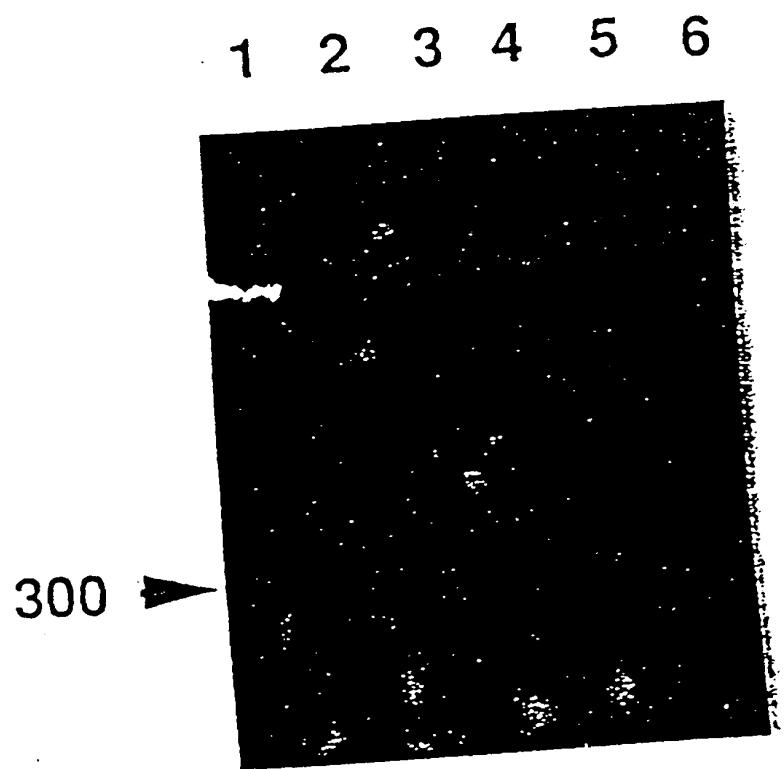


Figure  
8A

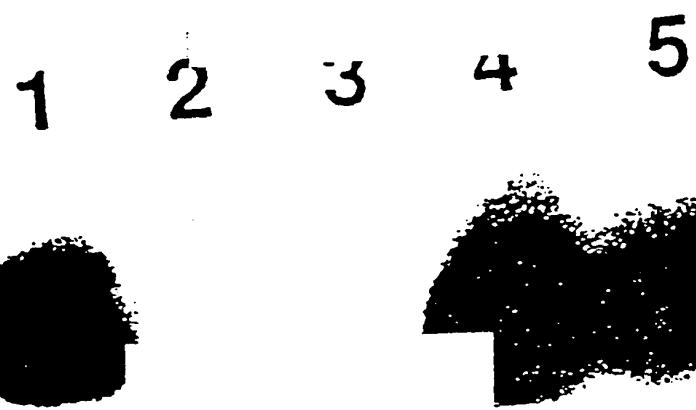


Figure  
8B

299 ➤

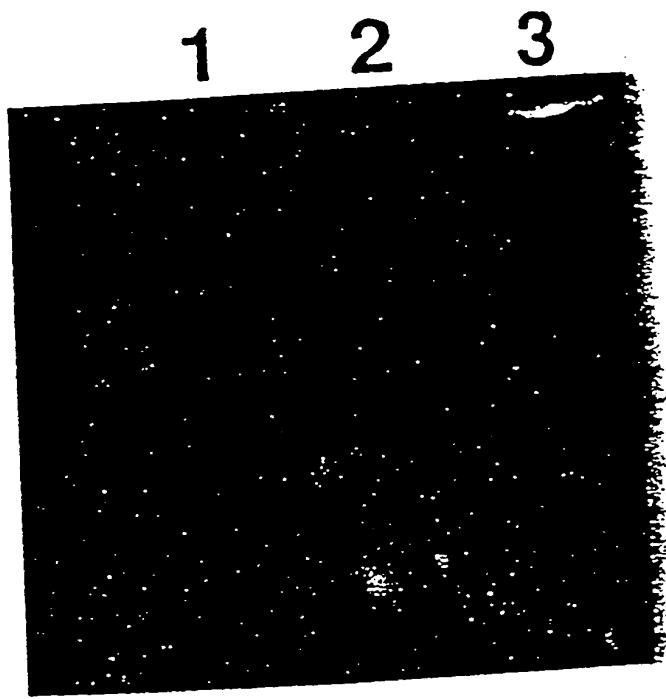


Figure  
9

### Scheme for recombination assay

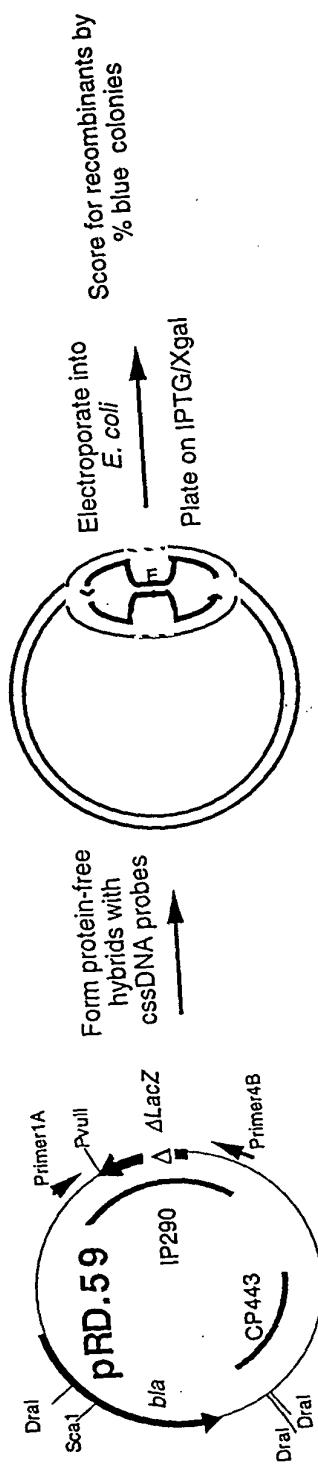


Figure 10

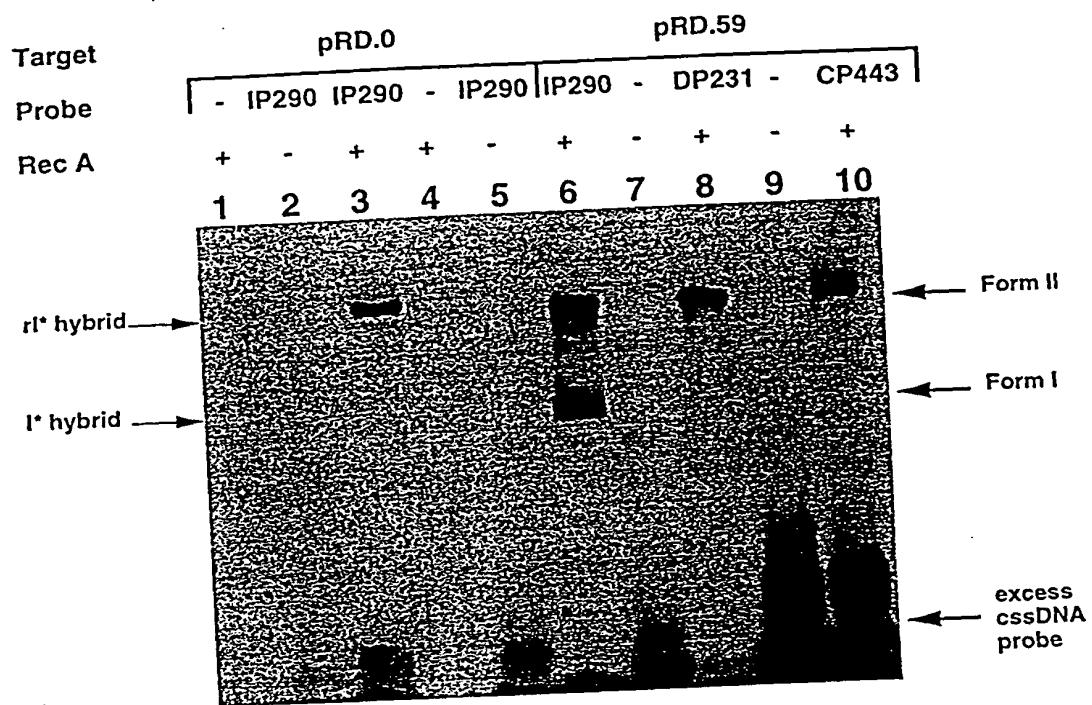


FIGURE 11

## cssDNA Probe:Target Hybrids Enhance Homologous Recombination

Target	Probe	RecA coating	Host	%Recombinant / total colonies
pRD.59	-	+	RecA+	0
	-	+	RecA -	0
pRD.59	IP290	-	RecA+	0
	IP290	-	RecA -	0
	IP290	+	RecA+	3
	IP290	+	RecA -	0
pRD.59	DP290	-	RecA+	0
	DP290	-	RecA -	0
pRD.59	DP290	+	RecA+	0
	DP290	+	RecA -	0
pRD.59	CP443	-	RecA+	0
	CP443	-	RecA -	0
pRD.59	CP443	+	RecA+	0
	CP443	+	RecA -	0

Figure 12

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## Four-strand hybrids

All DNA probe and target strands are paired

## Unstable

## Three-strand hybrids

Certain regions of DNA probe or target strands are unpaired

### A. Target DNA completely homologous

## No Internal Homology Clamp

## B. Target DNA with a deletion

A schematic diagram of a cylinder with a rod. Air enters through a top port and exits through a bottom port. The cylinder has a double-acting piston with a rod extending from the bottom. Arrows indicate the flow of air and the movement of the rod.

## Internal Homology Clamp formed by cssDNA Probe

c. Target DNA with an insertion

## Internal Homology Clamp formed by dsDNA target

A diagram of a single-walled vessel. A horizontal line with a diagonal hatching pattern, representing a loop, is attached to the side of the vessel. An arrow points to this loop with the label "unpaired".

unpaired

unpaired

## Three-strand hybrids

Certain regions of DNA probe or target strands are unpaired

Figure 13

Figure 14A

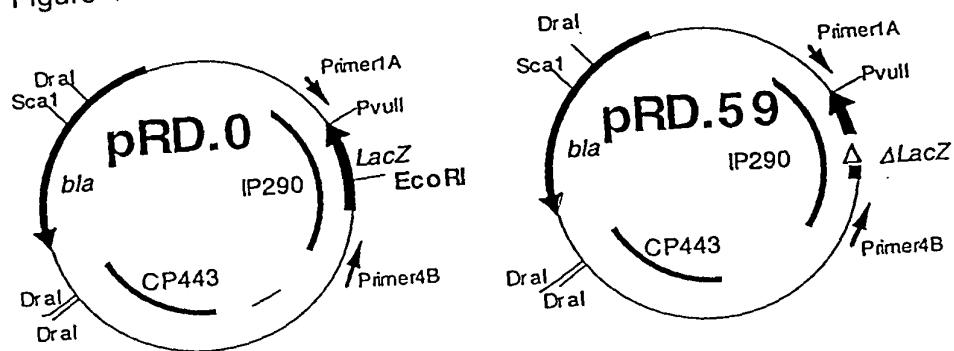
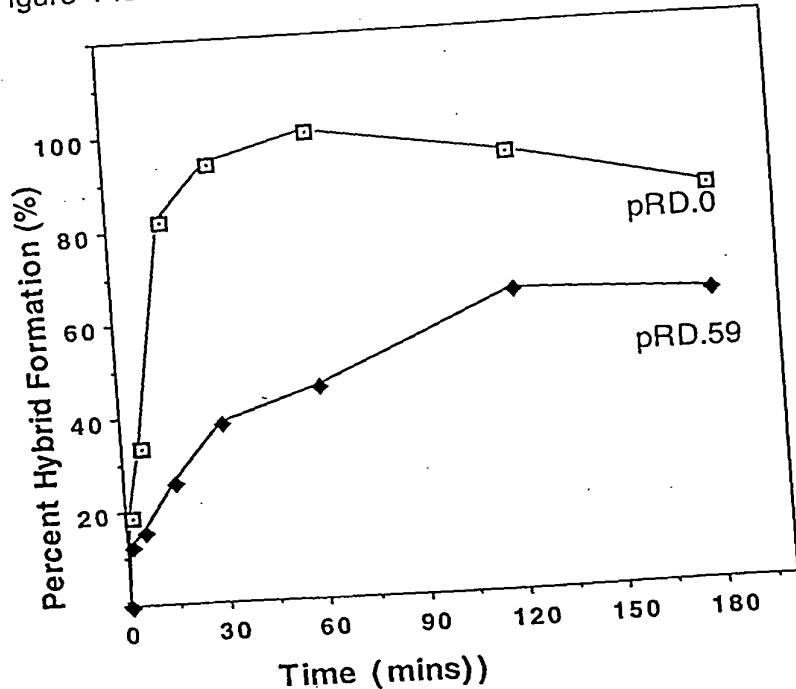


Figure 14B



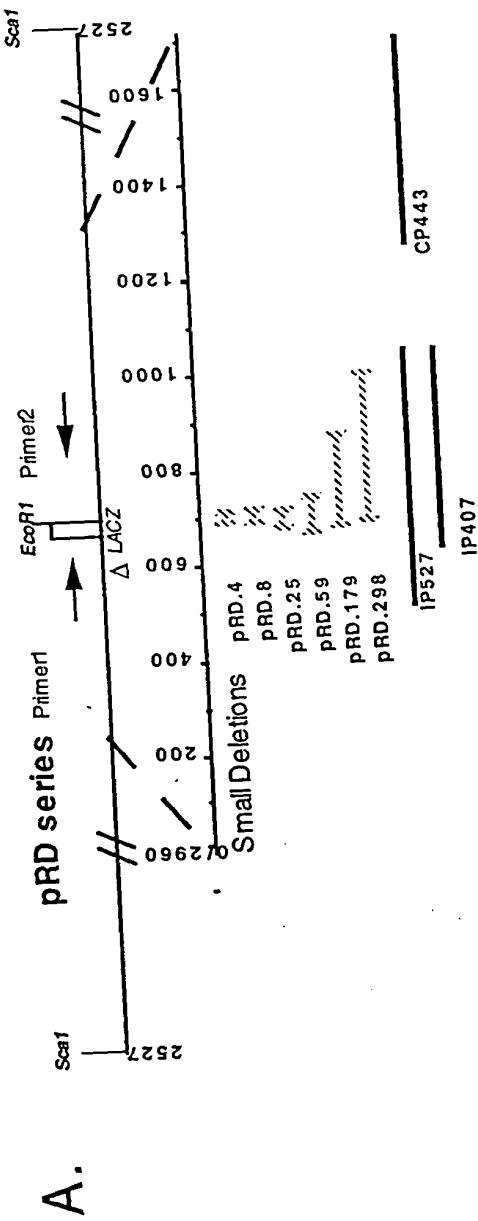


Figure 15A

Figure 15B

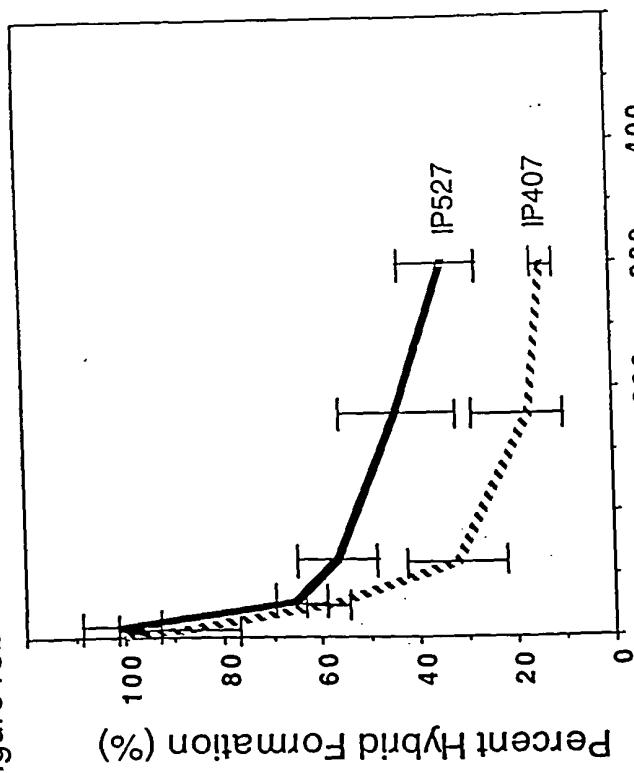


Figure 15C

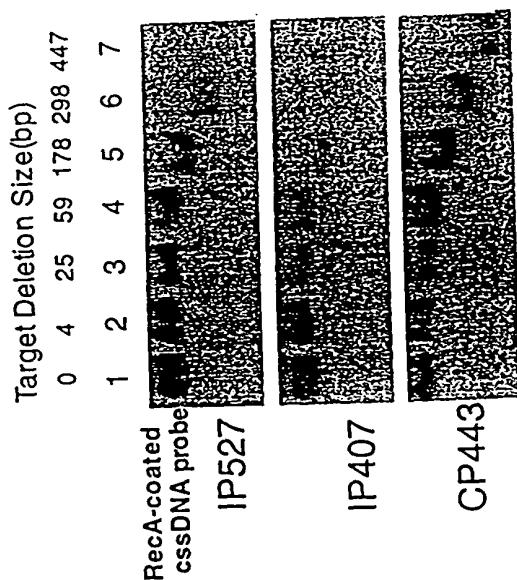
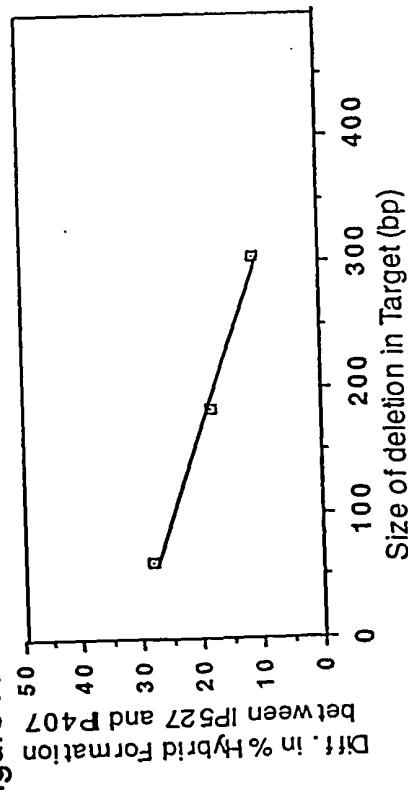


Figure 15D



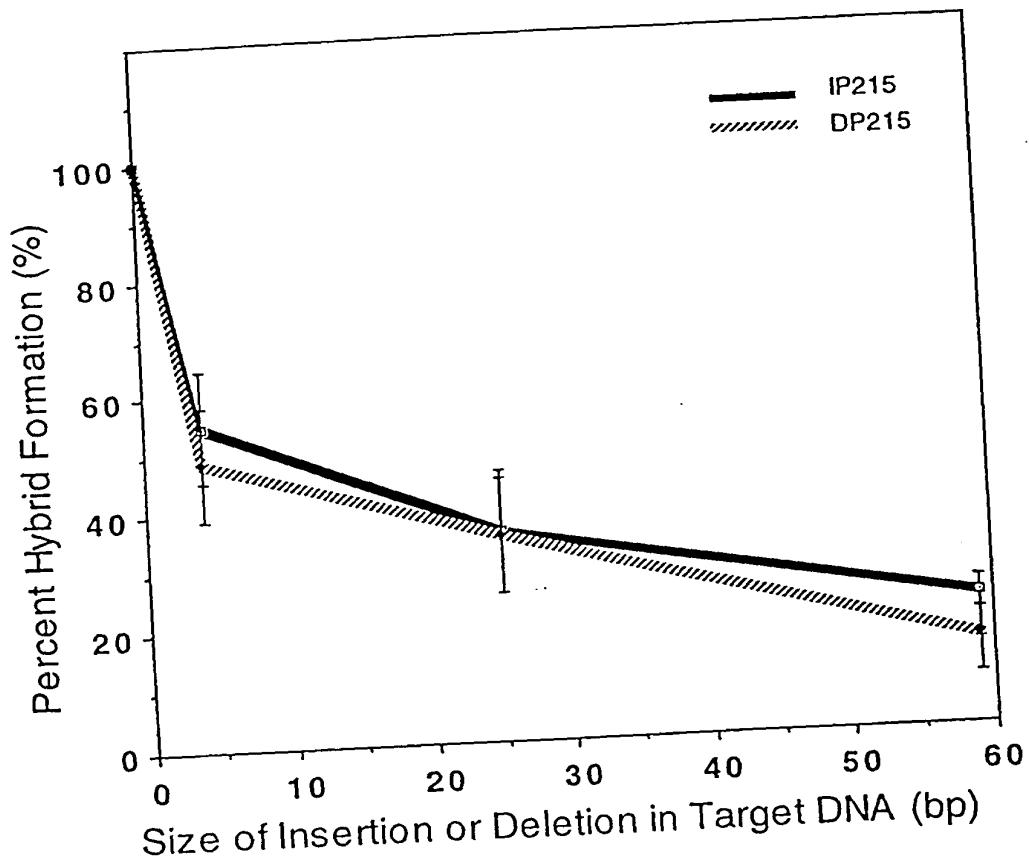


Figure 16

Figure 17A

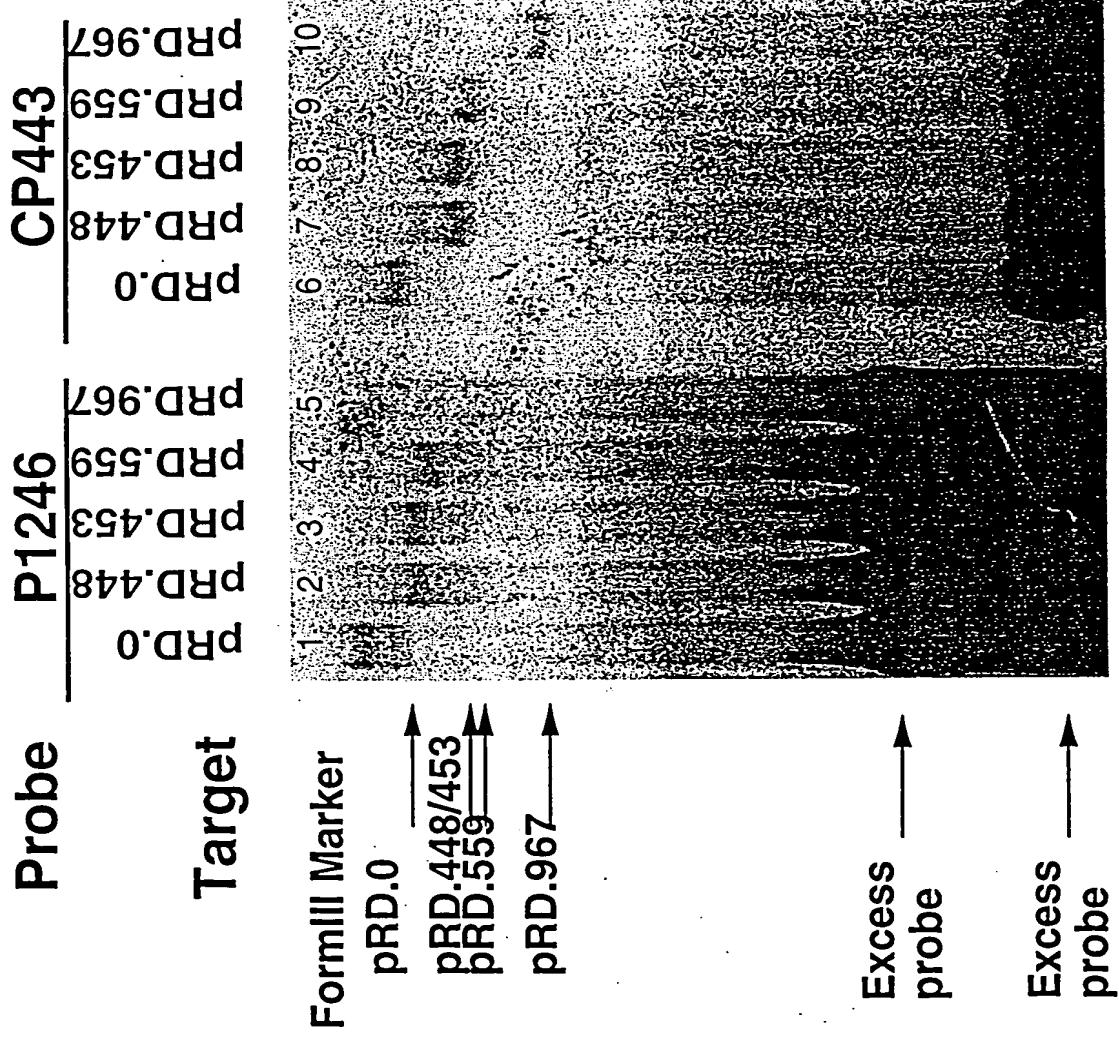


Figure 17B

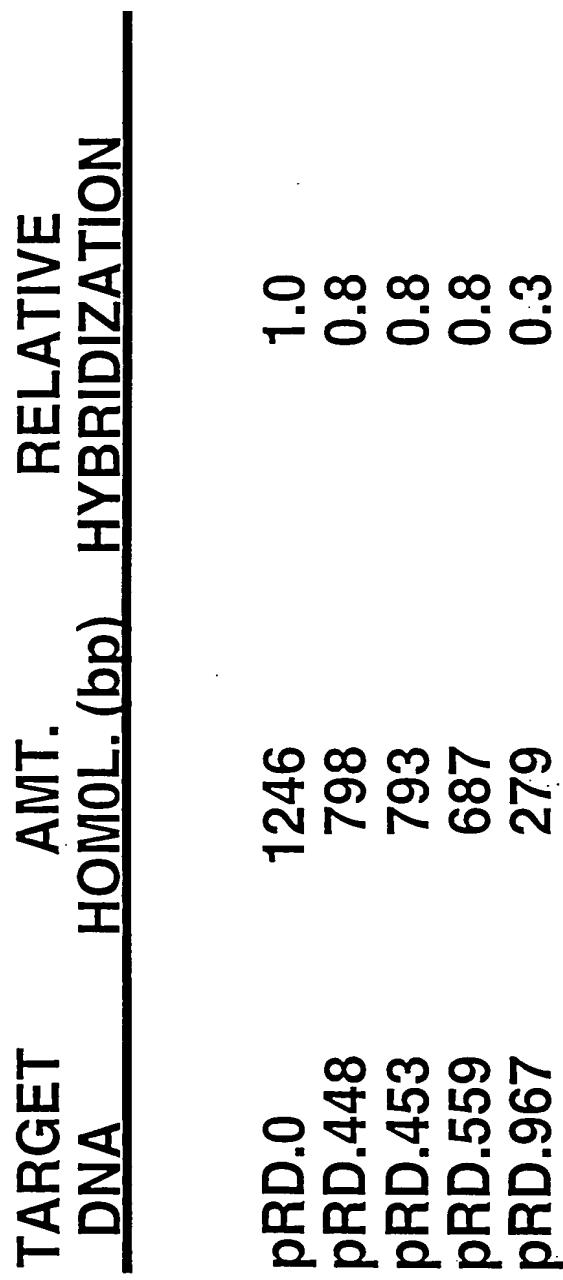
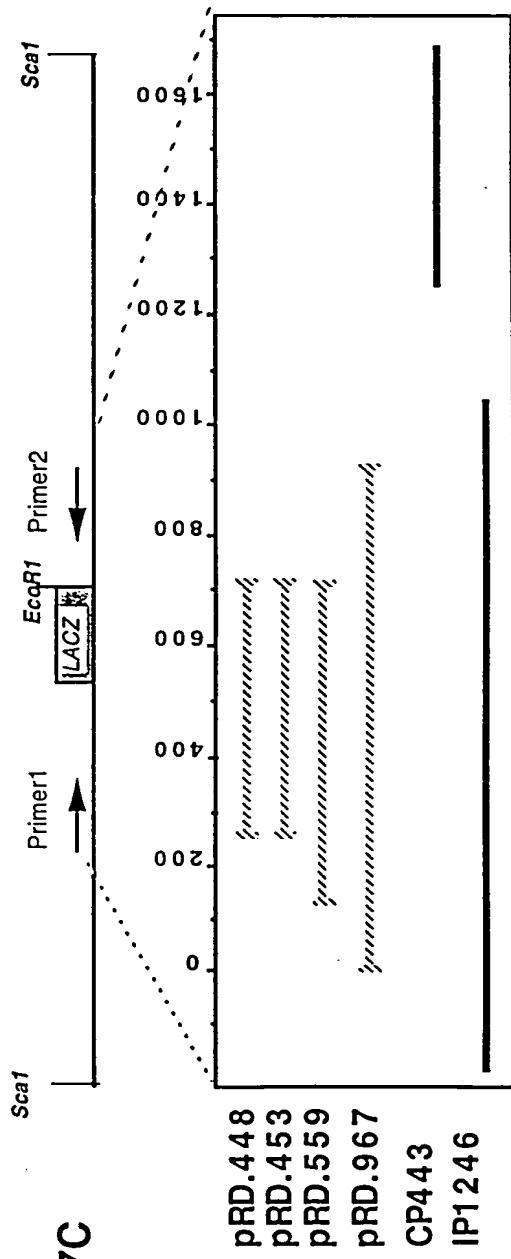
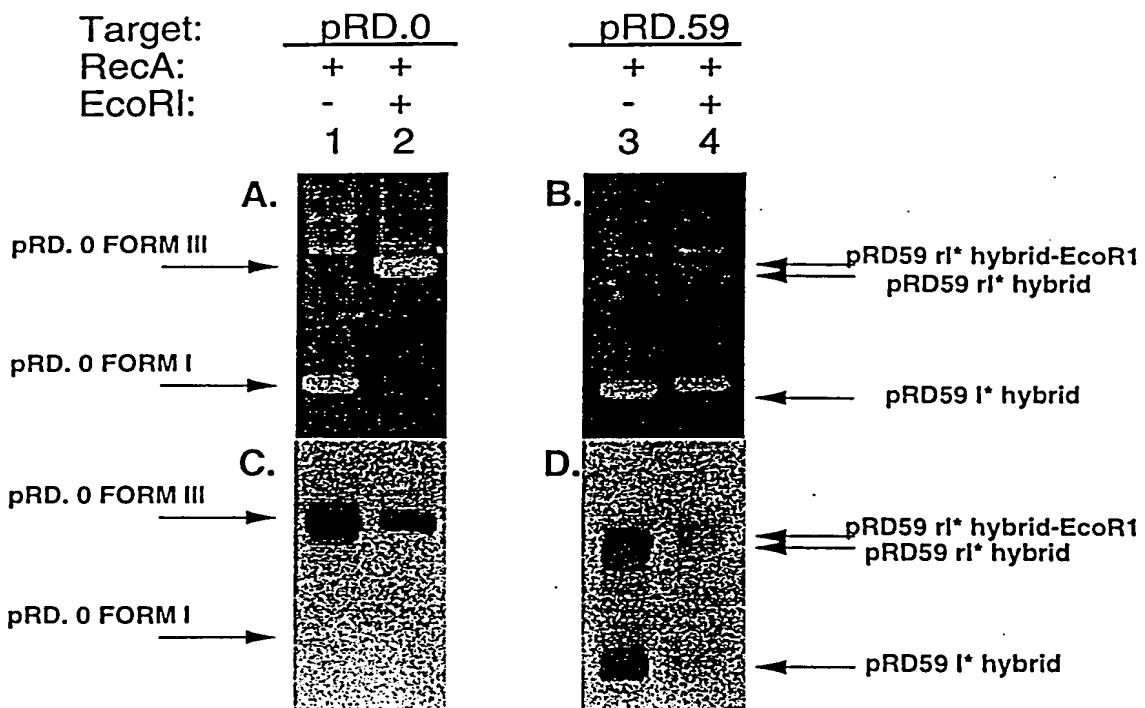


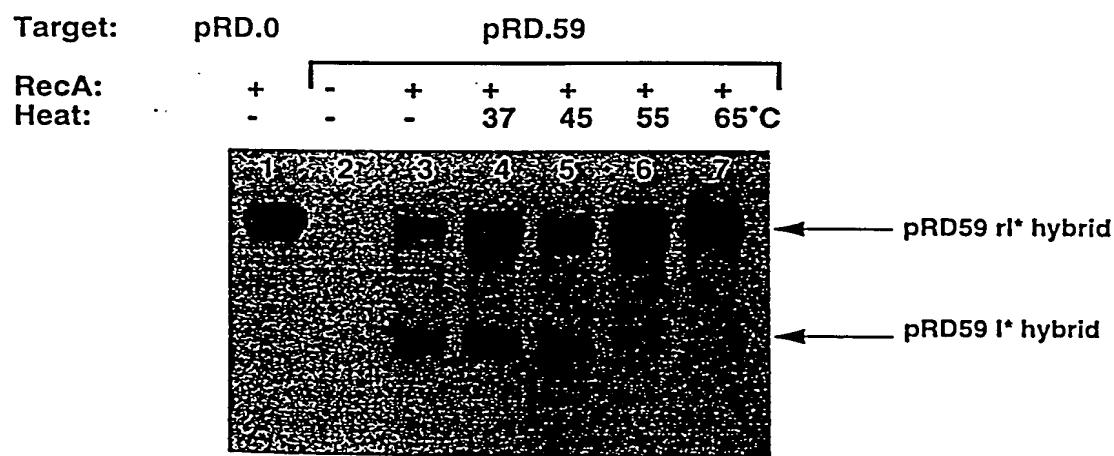
Figure 17C



**Figure 18**



**Figure 19**



## Mouse Ornithine Transcarbamylase Gene

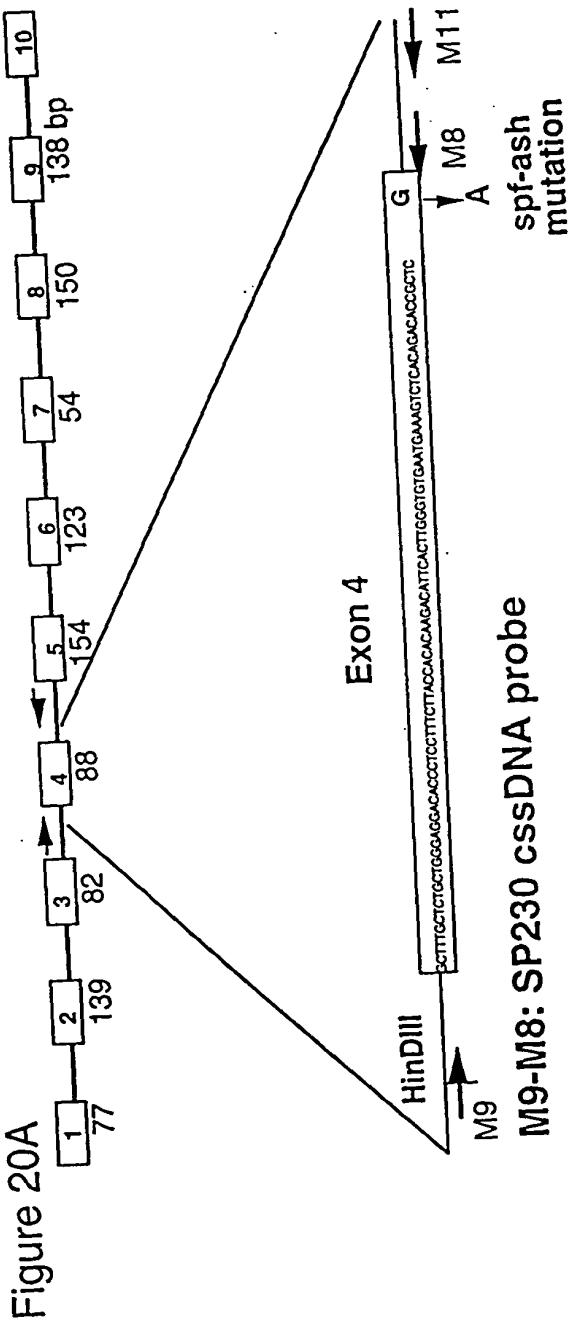


Figure 20B

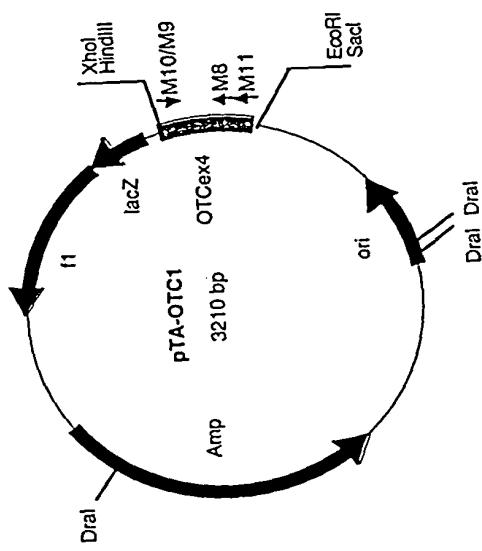
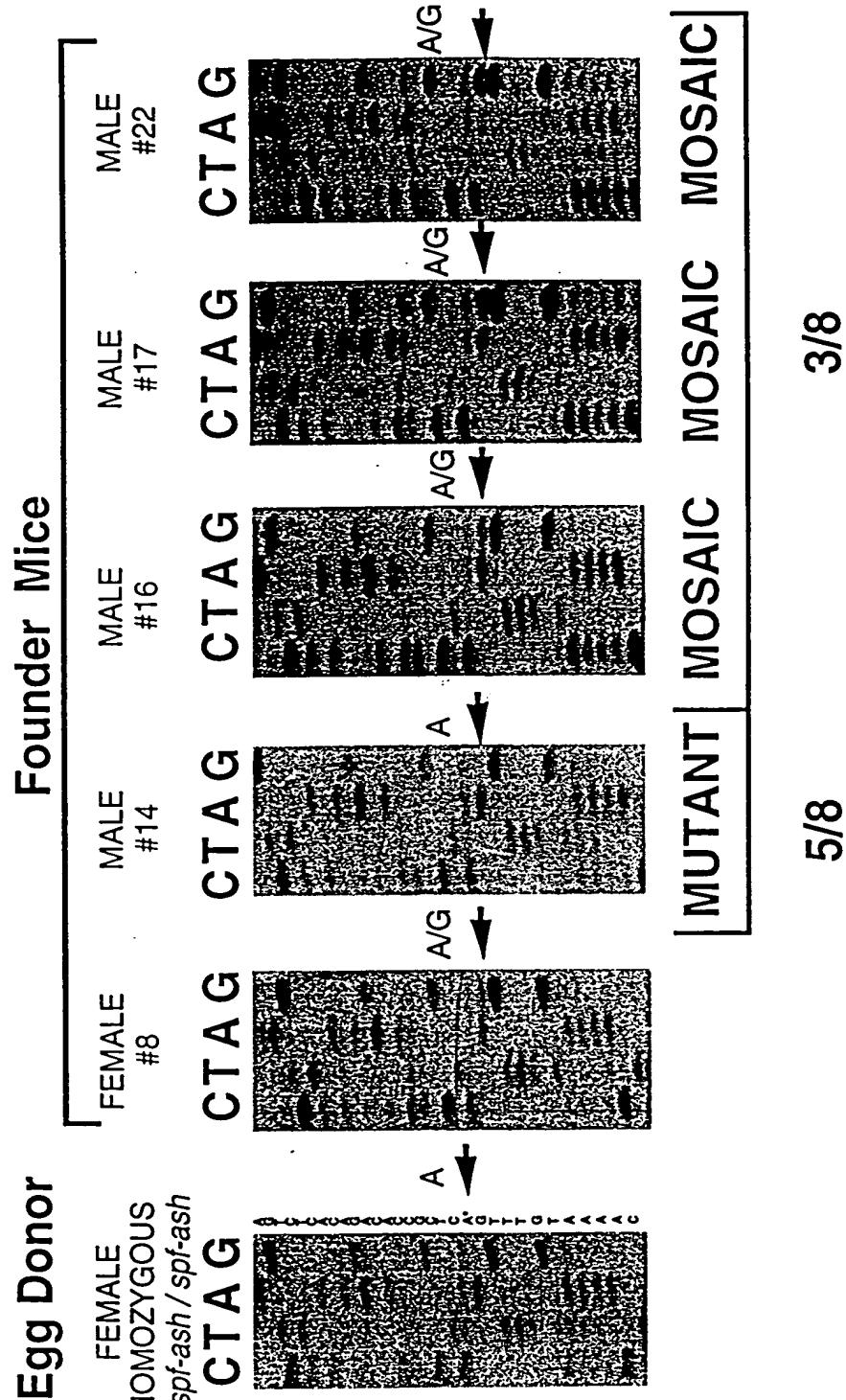
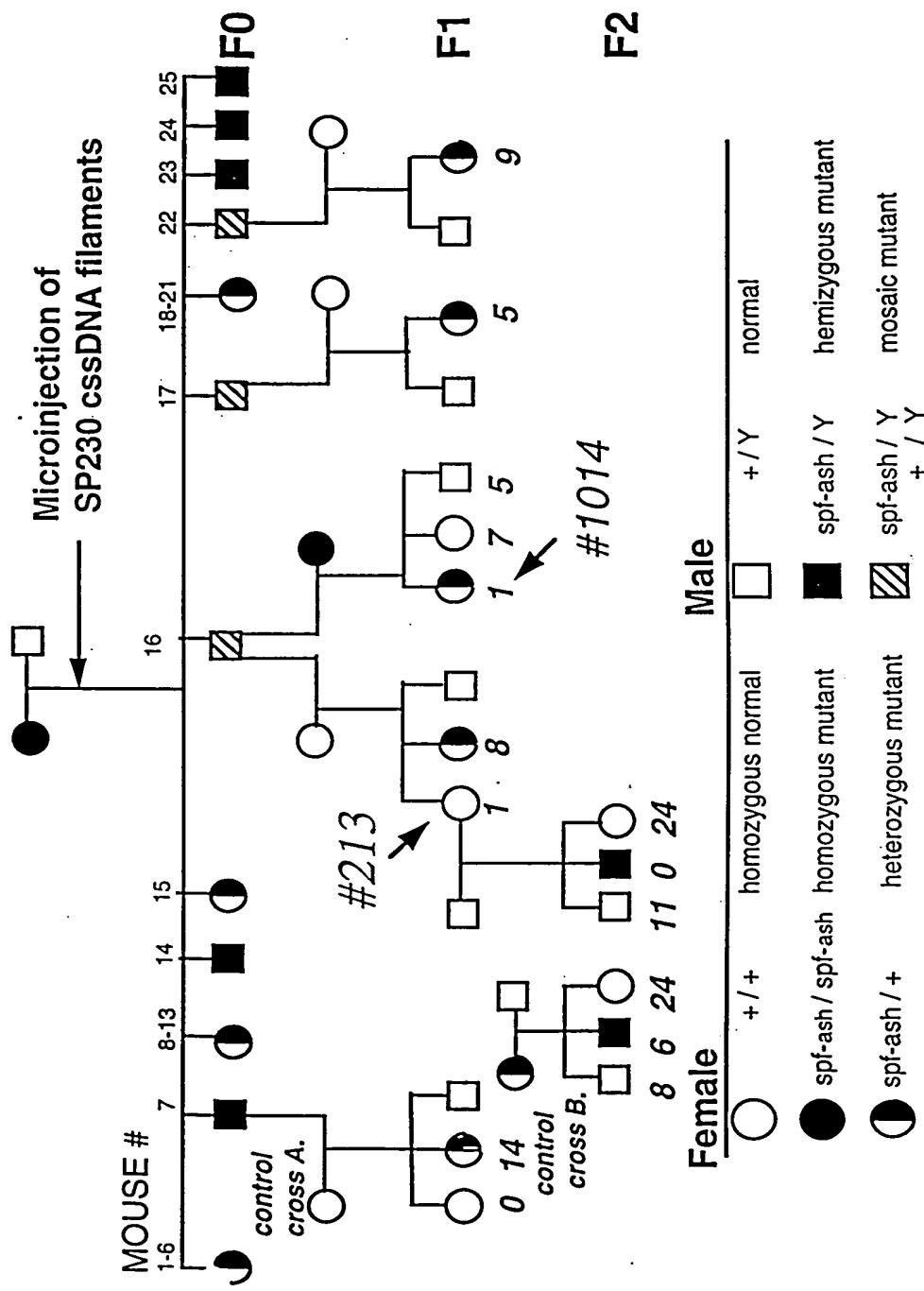


Figure 21 OTC exon4 DNA sequence determination



**Figure 22**  
Germline Transmission of EHR Corrected OTC<sup>+</sup> Allele



**Figure 23** Germline Transmission of Corrected Allele of F0 Male #16

